SPYWOLF

Security Audit Report

Completed on

May 9, 2023

OVERVIEW

This audit has been prepared for **Muskman INU** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

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Muskman INU

PROJECT DESCRIPTION

According to their whitepaper:

Muskman approaches the creation of our community from a unique perspective. We believe that through the power of collective decentralization, we can build something stronger than a centralized team ever could. A community-run token is nothink without the united individuals who give it purpose. From the early days of Muskman, we will be known as the Muskman Army, both amongst ourselves and across countless other platforms.

Release Date: Presale starts in May, 2023

Category: Meme token

CONTRACT INFO

Token Name
Muskman INU

Symbol
MMAN

Contract Address
0x56f93b9bE3f65713eC91F481a92f9045Bb46F4FA

Network
Binance Smart Chain

Language
Solidity

Deployment Date
May 08, 2023

Verified?
Yes

Total Supply
100,000,000,000,000

Status
Not launched

TAXES

Buy Tax
1%

Sell Tax
2%

*Taxes can be changed in future

Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

TOKEN TRANSFERS STATS

Transfer Count	2
Uniq Senders	2
Uniq Receivers	2
Total Amount	150000000000000 MMAN
Median Transfer Amount	99999999999999.98 MMAN
Average Transfer Amount	75000000000000 MMAN
First transfer date	2023-05-08
Last transfer date	2023-05-08
Days token transferred	1

SMART CONTRACT STATS

Calls Count	2
External calls	2
Internal calls	0
Transactions count	2
Uniq Callers	1
Days contract called	1
Last transaction time	2023-05-08 09:16:09 UTC
Created	2023-05-08 09:15:39 UTC
Create TX	0x5ede957b196783b140dff14a1cd39dcf5f2130245c6b85fd1c56018d7b11e7de
Creator	0x15649aa701da8c1de88f009412dcdb5cf0698947

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

⚠ High Risk

Additional tokens are minted on each tax deduction event.
This might lead to token's inflation in future.

```
function takeTaxes(address from, uint256 amount, bool buy, bool sell, bool other) internal returns (uint256) {
    ...................
    uint256 feeAmount = amount * currentFee / masterTaxDivisor;
    if (feeAmount > 0) {
        _tOwned[address(this)] += feeAmount;
        emit Transfer(from, address(this), feeAmount);
    }

    uint256 generatedAmount = feeAmount;
    if (feeAmount + getCirculatingSupply() >= maximumSupply) {
        generatedAmount = maximumSupply - getCirculatingSupply();
    }
    uint256 swapAmt = generatedAmount * swapRatio / masterTaxDivisor;
    uint256 devAmt = generatedAmount * devRatio / masterTaxDivisor;
    uint256 burnAmt = generatedAmount - (swapAmt + devAmt);
    _tTotal += generatedAmount;
    if (burnAmt > 0) {
        _tOwned[DEAD] += burnAmt;
        emit Transfer(address(0), DEAD, burnAmt);
    }
    if (swapAmt > 0) {
        _tOwned[address(this)] += swapAmt;
        emit Transfer(address(0), address(this), swapAmt);
    }
    if (devAmt > 0) {
        _tOwned[_taxWallets.TRUST] += devAmt;
        emit Transfer(address(0), _taxWallets.TRUST, devAmt);
    }
    return amount - feeAmount;
}
```

- Recommendation:
  - Taxes should be deducted from already existing amounts, without creating additional tokens.

FOUND THREATS

⚠ Medium Risk

Owner can set protections and cashier contract once, before trading is enabled.
Owner can set anti bots criteria in the protections contract.
Cashier contract is responsible for rewards distribution.
The protections external contract is used to perform checks on regular users with each token buy/sell/transfer.
If protections contract is inappropriate one, unexcluded users from limitations won't be able to buy/sell the token.

The protections contract that perform these checks is not in the scope of the current audit.

```
function setInitializers(address aInitializer, address cInitializer) external onlyOwner {
    require(!tradingEnabled);
    require(cInitializer != address(this) && aInitializer != address(this) && cInitializer != aInitializer);
    cashier = Cashier(cInitializer);
    protections = Protections(aInitializer);
}

function finalizeTransfer(address from, address to, uint256 amount, bool buy, bool sell, bool other) internal returns (bool) {
    if (_hasLimits(from, to)) { bool checked;
        try protections.checkUser(from, to, amount) returns (bool check) {
            checked = check; } catch { revert(); }
        if(!checked) { revert(); }
    }
.................
}
```

Informational

Owner can withdraw any tokens from the contract until liquidity is added. Once liquidity is added, the owner can withdraw any tokens from the contract with exception of the native blockchain token (BNB) and the native contract token (MMAN).

```
function sweepContingency() external onlyOwner {
    require(!_hasLiqBeenAdded, "Cannot call after liquidity.");
    payable(_owner).transfer(address(this).balance);
}

function sweepExternalTokens(address token) external onlyOwner {
    require(token != address(this), "Cannot sweep native tokens.");
    IERC20 TOKEN = IERC20(token);
    TOKEN.transfer(_owner, TOKEN.balanceOf(address(this)));
}
```

Owner can set bonus sell tax up to 10%, for up to 10 days after user's buy.

```
function setBonusSellTaxEnalbed(bool enabled) external onlyOwner {
    bonusSellTaxEnabled = enabled;
}

function setBonusSellTaxTime(uint256 timeInSeconds) external onlyOwner {
    require(timeInSeconds <= 10 days);
    sellTaxBonusTime = timeInSeconds;
}

function getBonusSellTaxEndTime(address account) view external returns (uint256 endTime) {
    if (buyMap[account] == 0) {
        endTime = 0;
    } else {
        endTime = buyMap[account] + sellTaxBonusTime;
    }
}
```

Informational

Owner can set buy/sell fees up to 1% and bonus sell fee up to 10%. Combined buy+sell = 12%.
When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make. Deducted amount will be as much as the fees % from total amount that user had bought, sold and/or transferred.

```
uint256 constant public maxBuyTaxes = 100;
uint256 constant public maxSellTaxes = 100;
uint256 constant masterTaxDivisor = 10000;

function setTaxes(uint16 buyFee, uint16 sellFee, uint16 bonusSellFee) external onlyOwner {
    require(!taxesAreLocked, "Taxes are locked.");
    require(buyFee <= maxBuyTaxes
            && sellFee <= maxSellTaxes,
            "Cannot exceed maximums.");
    require(bonusSellFee <= 1000, "Cannot exceed 10%.");
    _taxRates.buyFee = buyFee;
    _taxRates.sellFee = sellFee;
    _taxRates.bonusSellFee = bonusSellFee;
}
```

Owner can exclude address from fees, max transaction and max wallet limits. Such limits won't apply on excluded addresses.

```
function setExcludedFromFees(address account, bool enabled) public onlyOwner {
    _isExcludedFromFees[account] = enabled;
}
```

RECOMMENDATIONS FOR

GOOD PRACTICES

1. Consider fundamental tradeoffs
2. Be attentive to blockchain properties
3. Ensure careful rollouts
4. Keep contracts simple
5. Stay up to date and track development

Muskman INU

GOOD PRACTICES FOUND

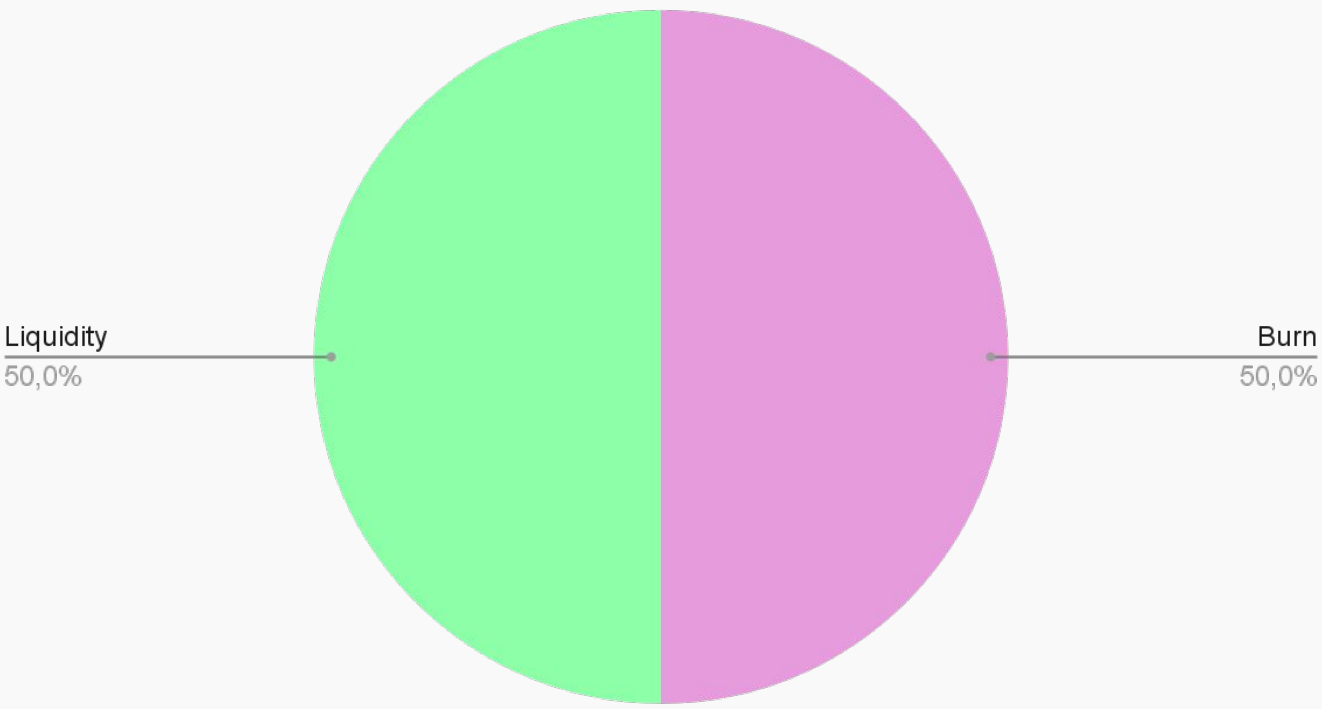
- ✔ The owner cannot set a transaction limit

TOKENOMICS

The following tokenomics are based on the project's whitepaper and/or website:

- 50% - Fairlaunch and Liquidity
- 50% - Burned

Tokens distribution



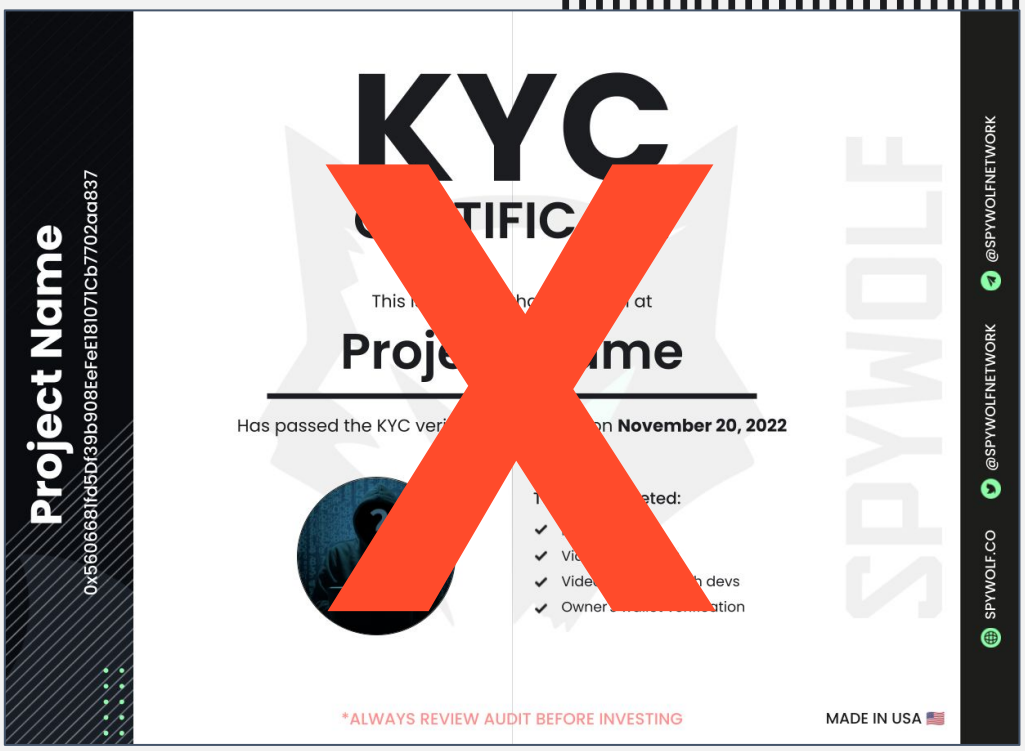
THE TEAM

⚠️ The team is annonymous

KYC INFORMATION

⚠️ No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.



WEBSITE

Website URL
https://muskman.org/

Domain Registry
https://www.namecheap.com

Domain Expiration
2024-04-14

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Single page design with appropriate color scheme and graphics.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper
Well written , explanatory.

Roadmap
Yes, goals set without time frames.

Mobile-friendly?
Yes

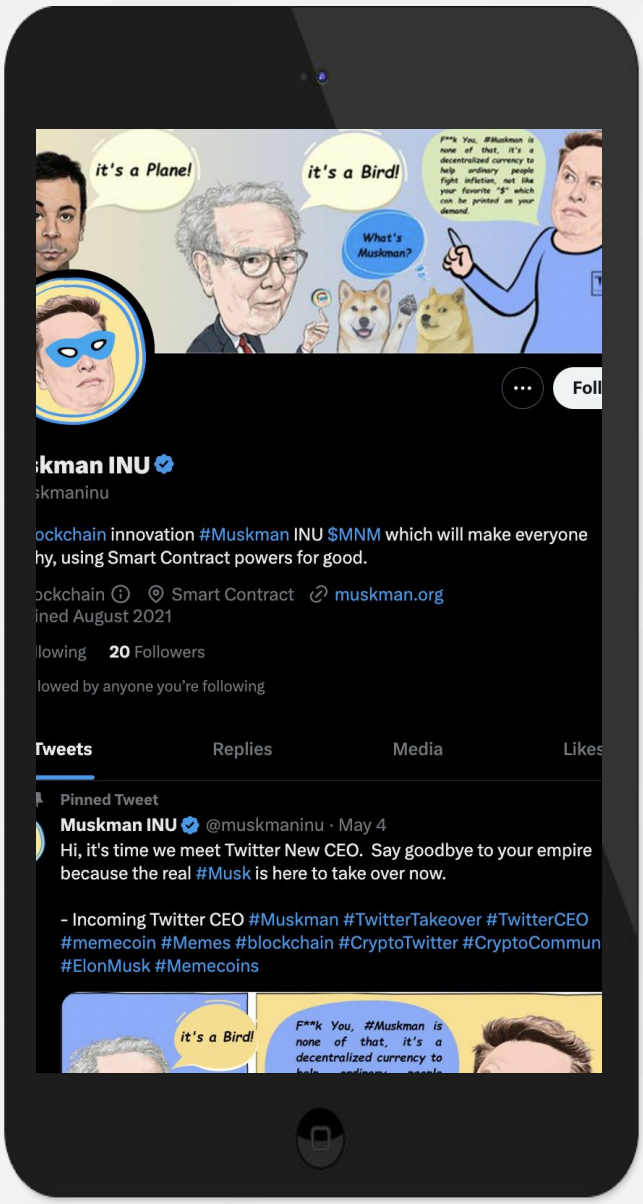
muskman.org

SOCIAL MEDIA

& ONLINE PRESENCE

ANALYSIS

Some of the project's social media pages are new but active.



Twitter

@muskmaninu

- 20 followers
- Active
- Posts frequently

Discord

- Not available

Telegram

@muskmanofficial

- 4 members
- No active users

Medium

- Not available

SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.
While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.